

**CLAIMS**

1. A basket strainer installation/removal tool comprising:

5 a body having an axis and having an upper end and a lower end;

a cylindrical passageway extending through the body from the upper end to the lower end along the axis thereof;

10 a plurality of radially extending passageways formed in the lower portion of the body and each extending continuously from the axially extending cylindrical passageway to the exterior of the body;

a shaft mounted in the cylindrical passageway of the body for rotation therein;

15 a plurality of cylindrical cams mounted in the cylindrical passageways for inward and outward movement relative to the body;

20 camming means mounted on the shaft for moving the cylindrical cams outwardly responsive to rotation of the shaft relative to the body;

said cylindrical cams for effecting gripping engagement between the basket strainer installation/removal tool and a basket strainer.

2. A basket strainer installation/removal tool  
25 comprising:

a body having an axis and having an upper end and  
a lower end;

a cylindrical passageway extending through the  
body from the upper end to the lower end along the axis  
30 thereof;

a plurality of radially extending passageways  
formed in the lower portion of the body and each extending  
continuously from the axially extending cylindrical  
passageway to the exterior of the body;

35 a shaft mounted in the cylindrical passageway of  
the body for rotation therein;

a plurality of cylindrical cams mounted in the  
cylindrical passageways for inward and outward movement  
relative to the body;

40 an elastomeric band encircling the lower end of  
the body in alignment with the cylindrical cams for  
resisting outward movement of the cylindrical cams;

the elastomeric bands for engagement with the  
interior surface of a basket strainer whereby the basket  
45 strainer is secured in engagement with the cylindrical body  
of the tool by outward movement of the cylindrical cams;  
and

camming means mounted on the shaft for moving the cylindrical cams outwardly responsive to rotation of the shaft relative to the body.

3. A basket strainer installation/removal tool comprising:

a body comprising a right circular cylinder defined by an axis and having an upper end and a lower end;

5 a cylindrical passageway extending through the body from the upper end to the lower end along the axis thereof;

at least a portion of the cylindrical passageway extending through the body being internally threaded;

10 a plurality of radially extending passageways formed in the lower portion of the body and each extending continuously from the axially extending cylindrical passageway to the exterior of the body;

a threaded shaft mounted in the cylindrical passageway of the body in threaded engagement with the internal threads thereof for upward and downward movement relative to the body in response to relative rotation with respect thereto;

15 a conical cam mounted at the lower end of the threaded shaft;

20 a plurality of cylindrical cams mounted in the cylindrical passageways for inward and outward movement relative to the body responsive to movement of the conical cam under the action of the threaded shaft;

an elastomeric band encircling the lower end of the body in alignment with the cylindrical cams for resisting outward movement of the cylindrical cams under the action of the conical cam and for moving the  
5 cylindrical cams inwardly within the cylindrical passageways when the conical cam is moved upwardly relative to the body under the action of the threaded shaft; and

the elastomeric bands for engagement with the interior surface of a basket strainer whereby the basket  
10 strainer is secured in engagement with the cylindrical body of the tool by outward movement of the cylindrical cams responsive to downwardly movement of the conical cam responsive to rotation of the threaded shaft relative to the body.